SEQUENCE LISTING

_	(1) GENERAL INFORMATION:
5	(i) APPLICANT: GOELET, PHILIP KNAPP, MICHAEL R.
1 0	(ii) TITLE OF INVENTION: SINGLE NUCLEOTIDE POLYMORPHISMS AND THEIR USE IN GENETIC ANALYSIS
	(iii) NUMBER OF SEQUENCES: 95
15	 (iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: HOWREY & SIMON (B) STREET: 1299 PENNSYLVANIA AVENUE, N.W. (C) CITY: WASHINGTON (D) STATE: D.C.
20	(E) COUNTRY: US (F) ZIP: 20004
25	 (v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: Patentin Release #1.0, Version #1.25
30	(vi) CURRENT APPLICATION DATA:(A) APPLICATION NUMBER: US(B) FILING DATE:(C) CLASSIFICATION:
35	(viii) ATTORNEY/AGENT INFORMATION:(A) NAME: AUERBACH, JEFFREY I(B) REGISTRATION NUMBER: 32,680(C) REFERENCE/DOCKET NUMBER: 683-104-CIP
40	(ix) TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (202) 383-7451 (B) TELEFAX: (202) 383-6610
	(2) INFORMATION FOR SEQ ID NO:1:
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
50	(ii) MOLECULE TYPE: DNA (genomic)
	(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
5	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
4.0	GCAGCTCTAA GTGCTGTGGG	20
10	(2) INFORMATION FOR SEQ ID NO:2:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
20	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
25	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-2	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
	TGCAGAAATT CTAAGGTGTT	20
35	(2) INFORMATION FOR SEQ ID NO:3:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
45	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
50	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-2	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
	AACACCTTAG AATTTCTGCA	20
5	(2) INFORMATION FOR SEQ ID NO:4:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
15	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
20	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-2	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
	CCCACAGCAC TTAGAGCTGC	20
2.0	(2) INFORMATION FOR SEQ ID NO:5:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	
35	(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
4.0	(iii) HYPOTHETICAL: NO	
40	(iv) ANTI-SENSE: NO	
45	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-3	
EΩ	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
50	AGCTCTGGGA TGATCCACTA	2

	(2) INFORMATION FOR SEQ ID NO:6:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
1 0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
•	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-3	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
	TGAGGGAAAA ATGATGATGC	20
25	(2) INFORMATION FOR SEQ ID NO:7:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-3	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
	GCATCATCAT TTTTCCCTCA	20

	(2) INFORMATION FOR SEQ ID NO.0.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
4.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
0.5	TAGTGGATCA TCCCAGAGCT	20
25	(2) INFORMATION FOR SEQ ID NO:9:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
0.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 090-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	

AAAACTAATT TGATGGCCAT

	(2) INFORMATION FOR SEQ ID NO:10.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
4.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 090-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
٥.5	AAAGTCAGAA CAATGATTGC	20
25	(2) INFORMATION FOR SEQ ID NO:11:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
٥.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 090-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	

GCAATCATTG TTCTGACTTT

	(2) INFORMATION FOR SEQ ID NO:12:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
4.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 090-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
0.5	ATGGCCATCA AATTAGTTTT	20
25	(2) INFORMATION FOR SEQ ID NO:13:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 324-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
	CACAAGGCCC AAGAACAGGA	2

	(2) INFORMATION FOR SEQ ID NO:14:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
4.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 324-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
0.5	TGAGTTCAGC GAGTGTCAGA	20
25	(2) INFORMATION FOR SEQ ID NO:15:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
0.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 324-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
	TCTGACACTC GCTGAACTCA	2

	(2) INFORMATION FOR SEQ ID NO: 16.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
1.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 324-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
0.5	TCCTGTTCTT GGGCCTTGTG	20
25	(2) INFORMATION FOR SEQ ID NO:17:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
0.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 129-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	

TGGGAAAGAC CACATTATTT

	(2) INFORMATION FOR SEGIETO. 10.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
4.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 129-1	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
		20
25	GTTCCCTTTT GTTTCAGACC	
	(2) INFORMATION FOR SEQ ID NO:19:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
0.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 129-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	

GGTCTGAAAC AAAAGGGAAC

	(2) INFORMATION FOR SEQ ID NO:20:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 129-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
25	AAATAATGTG GTCTTTCCCA	20
23	(2) INFORMATION FOR SEQ ID NO:21:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	

CATGAGTAAG AAGCATCCGG

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
4.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
٥.5	CCATGGAGTC ATAGATAAGT	20
25	(2) INFORMATION FOR SEQ ID NO:23:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
	ACTTATCTAT GACTCCATGG	20

(2) INFORMATION FOR SEQ ID NO:22:

	(2) INFORMATION FOR SEQ ID NO:24:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic) (iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
25	CCGGATGCTT CTTACTCATG	20
25	(2) INFORMATION FOR SEQ ID NO:25:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 324-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	

CCCAAGAACA GGATTGAGTT

	(2) INFORMATION FOR SEQ ID NO:26:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 324-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
0.5	AGCGAGTGTC AGAGTTGTGT	20
25	(2) INFORMATION FOR SEQ ID NO:27:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
٥.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 324-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	

ACACAACTCT GACACTCGCT

	(2) INFORMATION FOR SEQ ID NO:28:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 324-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
25	AACTCAATCC TGTTCTTGGG	20
20	(2) INFORMATION FOR SEQ ID NO:29:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
00	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	

AGCAAGAAA TGGGGGGCCTT

	(2) INFORMATION FOR SEQ ID NO:30:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
4.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:	
0.5	GTCCTACAAT TGCCAGGAAG	20
25	(2) INFORMATION FOR SEQ ID NO:31:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
0.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	

CTTCCTGGCA ATTGTAGGAC

	(2) INFORMATION FOR SEQ ID NO:32:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
25	AAGGCCCCC ATTTCTTGCT	20
23	(2) INFORMATION FOR SEQ ID NO:33:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	

GAATATCAAT ATATATATAT

	(2) INFORMATION FOR SEQ ID NO.34.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
1.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
	TGTGTGTGT TGTATTTGCT	20
25	(2) INFORMATION FOR SEQ ID NO:35:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
0.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:	

AGCAAATACA CACACACACA

	(2) INFORMATION FOR SEQ ID NO:36:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-1	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:	
	ATATATAT ATTGATATTC	20
25	(2) INFORMATION FOR SEQ ID NO:37:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-3	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:	

GCCATAATTA AGCCTGTATT

	(2) INFORMATION FOR SEQ 15 NO.550.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
4.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:	
	GTTTGTTTTA AATTTTGTGA	20
25	(2) INFORMATION FOR SEQ ID NO:39:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
0.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:	

TCACAAAATT TAAAACAAAC

	(2) INFORMATION FOR SEQ ID NO.40.	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
4.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:	
0.5	AATACAGGCT TAATTATGGC	20
25	(2) INFORMATION FOR SEQ ID NO:41:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
٥٢	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 459-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	

GTGTAGAGTA GTTCAAGGAC

	(2) INFORMATION FOR SEQ ID NO.42.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 459-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
٥٢	ATGTCTTATA CCTCCCTTTT	20
25	(2) INFORMATION FOR SEQ ID NO:43:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
2.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 459-1	
	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:43:	

AAAAGGAGG TATAAGACAT

	(2) INFORMATION FOR SEQ ID NO.44.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 459-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
0.5	GTCCTTGAAC TACTCTACAC	20
25	(2) INFORMATION FOR SEQ ID NO:45:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
0.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 085-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:	

GTGAACGGAG AGCAGGCCTT

	(2) INFORMATION FOR SEQ 10 NO.40.	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 085-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:	
	CCTGCTGAAG CCTCAGACCG	20
25	(2) INFORMATION FOR SEQ ID NO:47:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
٥.	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 085-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:	

CGGTCTGAGG CTTCAGCAGG

	(2) INFORMATION FOR SEQ ID NO:48:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 085-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:	
25	AAGGCCTGCT CTCCGTTCAC	20
25	(2) INFORMATION FOR SEQ ID NO:49:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:	

CTGCTCTTTA GACTATGACC

	(2) INFORMATION FOR SEQ ID NO.50.	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
1.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:	
0.5	TCAACCTTGC ATCATGAGCT	20
25	(2) INFORMATION FOR SEQ ID NO:51:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
2.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:	

AGCTCATGAT GCAAGGTTGA

	(2) INFORMATION FOR SEQ ID NO.32.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE: (B) CLONE: 007-2	
20	()	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:	
0.5	GGTCATAGTC TAAAGAGCAG	20
25	(2) INFORMATION FOR SEQ ID NO:53:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
٥٢	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 474-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:	

TTTGAGCTGG GACCTCAGTC

	(2) INFORMATION FOR SEQ ID NO:54:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE:	
20	(B) CLONE: 474-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
	TCTCCTGCCT TTAGACTCGA	20
25	(2) INFORMATION FOR SEQ ID NO:55:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 474-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	

TCGAGTCTAA AGGCAGGAGA

	(2) INFORMATION FOR SEQ ID NO:56.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 474-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
25	GACTGAGGTC CCAGCTCAAA	20
25	(2) INFORMATION FOR SEQ ID NO:57:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 178-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	

GAACCTCTGG GCCGTGGATA

	(2) INFORMATION FOR SEQ ID NO.56.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
1.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 178-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:	
O.E.	TTGTTCAGAA GCACAGGTGA	20
25	(2) INFORMATION FOR SEQ ID NO:59:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
2.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 178-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	

TCACCTGTGC TTCTGAACAA

	(2) INFORMATION FOR SEQ ID NO:60:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
	(vii) IMMEDIATE SOURCE: (B) CLONE: 178-1	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	
25	TATCCACGGC CCAGAGGTTC	20
20	(2) INFORMATION FOR SEQ ID NO:61:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:	

GTATTTGCTA GCTCTGGGAT

	(2) INFORMATION FOR SEQ ID NO.62.	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
1.0	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:	
25	ATCCACTAAT GAGGGAAAAA	20
25	(2) INFORMATION FOR SEQ ID NO:63:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
0.5	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:	

TTTTCCCTC ATTAGTGGAT

	(2) INFORMATION FOR SEQ ID NO.04.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 595-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:	
0.5	ATCCCAGAGC TAGCAAATAC	20
25	(2) INFORMATION FOR SEQ ID NO:65:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:	

GAAGTTGTGG GACAGATGTG

	(2) INFORMATION FOR SEQ ID NO:66:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:	
25	AGAGATGCAG CTCTAAGTGC	20
23	(2) INFORMATION FOR SEQ ID NO:67:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	,
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:	

GCACTTAGAG CTGCATCTCT

	(2) INFORMATION FOR SEQ ID NO.00.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 177-1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:	
25	CACATCTGTC CCACAACTTC	20
23	(2) INFORMATION FOR SEQ ID NO:69:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 459-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:	

CCATGAGGAA GCCTCCACAA

	(2) INFORMATION FOR SEQ ID NO:70:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 459-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:	
25	GTCCCAATAG TCTGGGATTC	20
20	(2) INFORMATION FOR SEQ ID NO:71:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
00	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE:(A) ORGANISM: Equus caballus	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: 459-2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:	

GAATCCCAGA CTATTGGGAC

	(2) INFORMATION FOR SEQ ID NO:72:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Equus caballus	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: 459-2	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:	
		00
25	TTGTGGAGGC TTCCTCATGG	20
20	(2) INFORMATION FOR SEQ ID NO:73:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
33	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: IGKC 2p12	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	
	AAAGCAGACT ACGAGAAACA CAAA	

	(2) INFORMATION FOR SEQ ID NO:74.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: IGKC 2p12	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:	
25	TCTACGCCTG CGAAGTCACC CATC	24
	(2) INFORMATION FOR SEQ ID NO:75:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
35	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
40	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: IGKC 2p12	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:	
50	GATGGGTGAC TTCGCAGGCG TAGA	24

	(2) INFORMATION FOR SEQ ID NO:76:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
10	(ii) MOLECULE TYPE: DNA (genomic)	
-	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: IGKC 2p12	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:	
25	TTTGTGTTTC TCGTAGTCTG CTTT	24
	(2) INFORMATION FOR SEQ ID NO:77:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
35	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
40	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: ILIB 2q3-q21	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:	
50	CTCCTGCAAT TGACAGAGAG CTCC	24

	(2) INFORMATION FOR SEQ ID NO:78:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
	(vii) IMMEDIATE SOURCE: (B) CLONE: ILIB 2q3-q21	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:	
25	GAGGCAGAGA ACAGCACCCA AGGT	24
	(2) INFORMATION FOR SEQ ID NO:79:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
40	(iv) ANTI-SENSE: NO	
	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: ILIB 2q3-q21	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:	

ACCTTGGGTG CTGTTCTCTG CCTC

	(2) INFORMATION FOR SEQ ID NO:80:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: ILIB 2q3-q21	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:	
25	GGAGCTCTCT GTCAATTGCA GGAG	24
	(2) INFORMATION FOR SEQ ID NO:81:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
35	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
40	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: LDLR 19p13.3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:	
50	CTCCATCTCA AGCATCGATG TCAA	2

	(2) INFORMATION FOR SEQ ID NO:82:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
1 N	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: LDLR 19p13.3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:	
25	GGGGCAACC GGAAGACCAT CTTG	24
	(2) INFORMATION FOR SEQ ID NO:83:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
40	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: LDLR 19p13.3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:	

CAAGATGGTC TTCCGGTTGC CCCC

50

	(2) INFORMATION FOR SEQ ID NO:84:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE:(A) ORGANISM: Homo sapiens	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: LDLR 19p13.3	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:	
25	TTGACATCGA TGCTTGAGAT GGAG	24
	(2) INFORMATION FOR SEQ ID NO:85:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
4.0	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: MET-H 7q31	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:	
50	GTTTGGTCTA AGTTGCTGAT TACC	24

	(2) INFORMATION FOR SEQ ID NO:86:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: MET-H 7q31	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:	
25	GGATTTTCT GACGATCTTT CAAC	24
	(2) INFORMATION FOR SEQ ID NO:87:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
40	(iv) ANTI-SENSE: NO	
, 0	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: MET-H 7q31	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:	

GTTGAAAGAT CGTCAGAAAA ATCC

	(2) INFORMATION FOR SEQ ID NO:88:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
10	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: MET-H 7q31	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:	
25	GGTAATCAGC AACTTAGACC AAAC	24
	(2) INFORMATION FOR SEQ ID NO:89:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
35	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
4.0	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: PROC 2q13-q21	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:	
E 0	COTOACACCC CCCCACTGCA TGGA	24

	(2) INFORMATION FOR SEQ ID NO:90:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE:(A) ORGANISM: Homo sapiens	
	(vii) IMMEDIATE SOURCE: (B) CLONE: PROC 2q13-q21	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:	
25	GAGTCCAAGA AGCTCCTTGT CAGG	24
	(2) INFORMATION FOR SEQ ID NO:91:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
35	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
4.0	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
45	(vii) IMMEDIATE SOURCE: (B) CLONE: PROC 2q13-q21	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:	
50	CCTGACAAGG AGCTTCTTGG ACTC	24

	(2) INFORMATION FOR SEQ ID NO:92:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: DNA (genomic)	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
15	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
20	(vii) IMMEDIATE SOURCE: (B) CLONE: PROC 2q13-q21	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:	
	TCCATGCAGT GGGCCGCTGT CAGC	24
25	(2) INFORMATION FOR SEQ ID NO:93:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
35	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
	(vii) IMMEDIATE SOURCE: (B) CLONE: MET-H 7q31	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:	
	CATCCATGTA GGAGAGCCTT AGTC	24

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 		
10	(ii) MOLECULE TYPE: DNA (genomic)		
	(iii) HYPOTHETICAL: NO		
15	(iv) ANTI-SENSE: NO		
10	(vi) ORIGINAL SOURCE:(A) ORGANISM: Homo sapiens		
20	(vii) IMMEDIATE SOURCE: (B) CLONE: MET-H 7q31		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:		
0.5	CCATTTTTGT GTCTTCTAGT CTAAGG	20	6
25	(2) INFORMATION FOR SEQ ID NO:95:	•	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 		
٥٦	(ii) MOLECULE TYPE: DNA (genomic)		
35	(iii) HYPOTHETICAL: NO		
	(iv) ANTI-SENSE: NO		
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens		
4.5	(vii) IMMEDIATE SOURCE: (B) CLONE: MET-H 7q31		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:		

(2) INFORMATION FOR SEQ ID NO:94:

TTGAAAGATC GTCAGAAAAA TCC